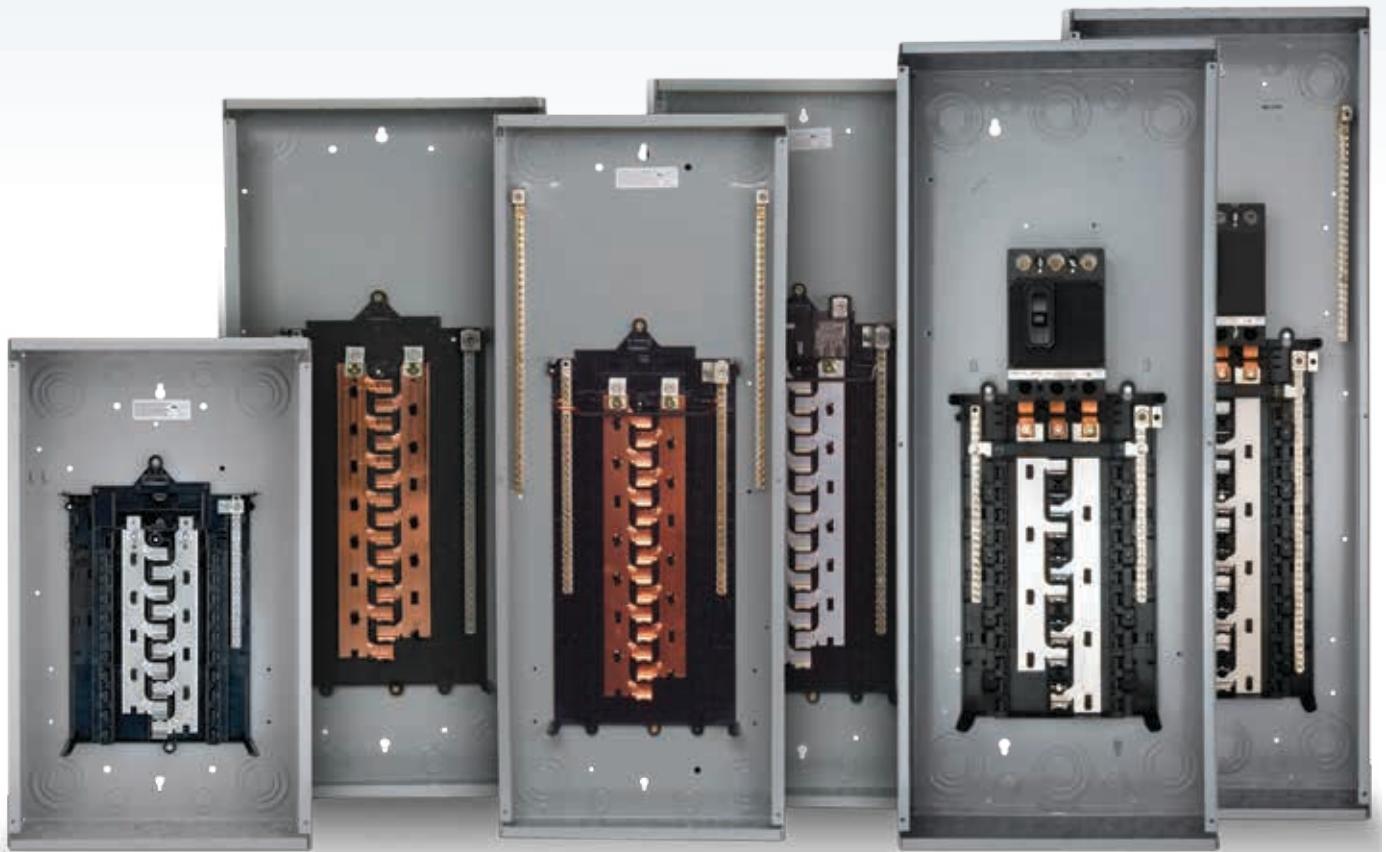


SIEMENS

Ingenuity for life



Selection & Application Guide

PL and ES Series Load Centers™

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PL and ES Series Load Centers™

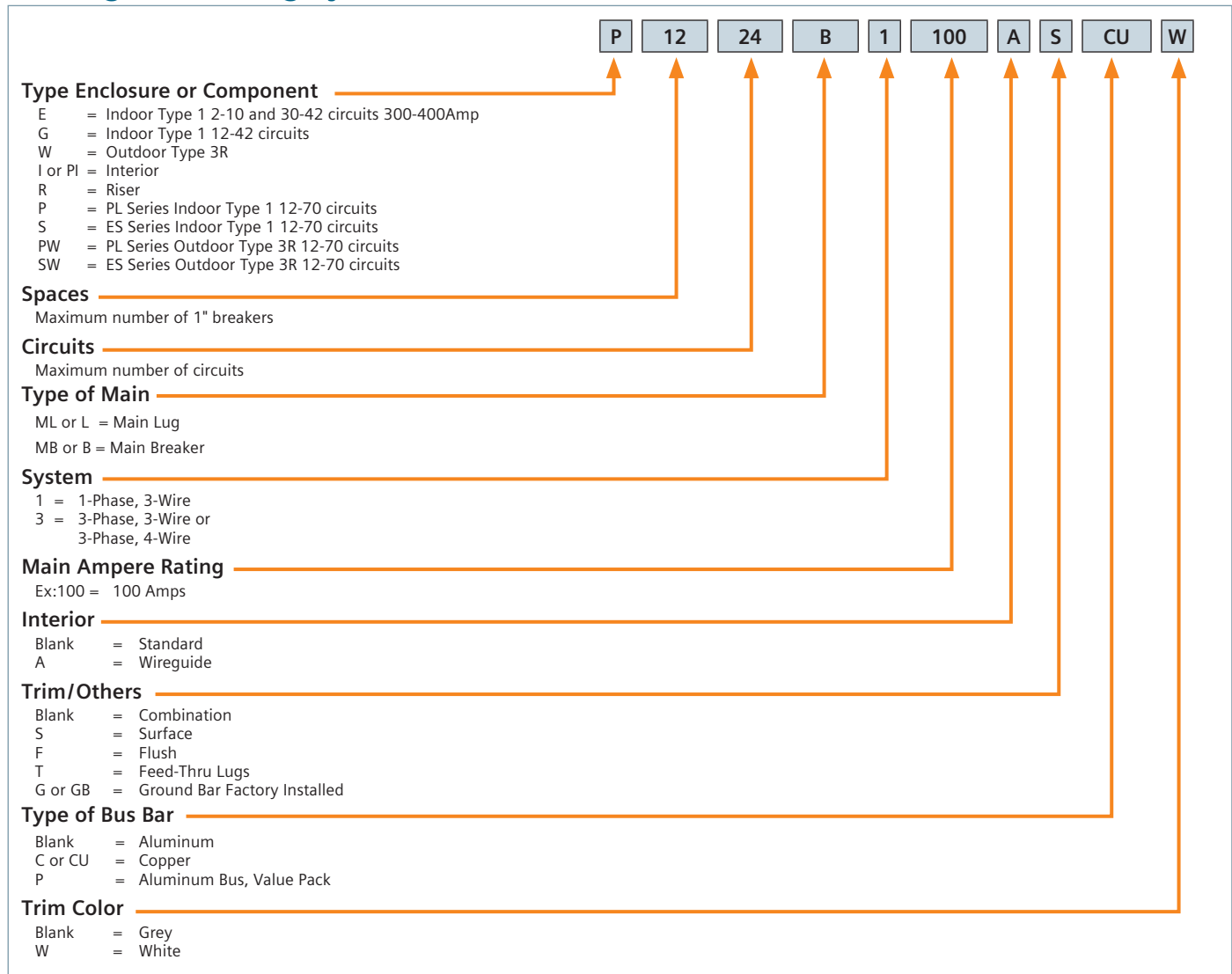
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Load Centers

Catalog Numbering System

Catalog Numbering System



Products Shown In Sections 1 of this Speedfax Meet or Exceed the Following Standards.

- UL50 — Electric Cabinets and Boxes
- UL67 — Electric Panelboards
- UL486 — Wire Connectors
- UL489 — Molded-Case Circuit Breakers
- UL869 — Service Equipment
- UL943 — Ground Fault interrupters (Class A — Personnel Protection)
- Federal Specification W-P-115b — Panel Power Distribution
- Federal Specification W-C-375B — Circuit Breakers
- NEC
- NEMA 250

Underwriters' Laboratories, Inc. Reference File Numbers:

- Series Connected Circuit Breaker Information is recognized by UL under file #E10848(N)
- Load Centers Listed by UL under file #E10703
- Load Centers UL recognized components found under file #E10703, Volume 6 and 7. (Also referenced under the recognized components directory — section QEUY2)
- EQ Circuit Breakers are Listed by UL under file #E82615

Load Centers

Siemens PL and ES Series Load Centers™ Overview

PL Series:

- Convertible
- Invertible^①
- Insta-wire neutrals & grounds
- Ground bars included
- Copper busbars
- Dual neutrals on all configurations
- Carton-in-carton packaging
- Lifetime warranty

ES Series:

- Invertible^①
- Insta-wire neutrals & grounds
- Aluminum busbars
- Single sided neutral on 24 circuits and below
- Single piece carton packaging
- 10 year warranty



PL Series 1-phase



PL Series 3-phase



ES Series 1-phase



ES Series 3-phase

NEW WireGuide™ Load Centers and Breakers

WireGuide load centers accept new AFCIs with shortened neutral wires that slide directly into the neutral bar.

Features

- Over 4 inches of breaker wire bending space
- 11 SKUs each available in both grey and white^①
- Pre-trimmed and ready to install neutral wires have an "Oops Loop" if extra wire is needed
- Full length neutral bars
- Decreased installation time
- WireGuide breakers available by adding "WG" suffix to existing catalog numbers. See page 1-34 for more details.



WireGuide Load Centers



Combination Type AFCI WireGuide Breaker

^① Applies only to NEMA 1 ES and PL Load Centers

PL Series 1-Phase Main Lug & Main Breaker Load Centers

1-phase, 3-wire SN, 120/240 Volts AC

Main Breaker/Convertible Load Centers^①

Copper Bus^⑦

12-70 Circuits / 100-225 Amperes

60/75°C Rated, 22,000A IR^②

Amp Rating	No. of Spaces	Indoor Enclosure – NEMA Type 1					Outdoor Enclosure – NEMA Type 3R			
		No. of Circuits	PL Catalog Number	No. of Circuits	PL with WireGuide Interior Catalog Number ^③	NEMA 1 - Enclosure Height (inches) ^③	No. of Circuits	Catalog Number	NEMA 3R - Enclosure Height (inches) ^④	
100	12	24	P1224B1100CU	—	—	18	24	PW1224B1100CU	21	
	16	24	P1624B1100CU ^⑤	—	—	21	24	PW1624B1100CU	23	
	20	20	P2020B1100CU	40	P2040B1100ACU	24	20	PW2020B1100CU	27	
		24	P2024B1100CU				—	—		
	24	24	P2424B1100CU	48	P2448B1100ACU	24	—	—	—	
		30	P3030B1100CU	60	P3060B1100ACU	30	—	—	—	
125	30	30	P3030B1125CU ^⑤	60	P3060B1125ACU	30	40	PW3040B1100CU	35	
		40	—	—	—	40	PW3040B1125CU	35		
150	20	30	P2030B1150CU	40	P2040B1150ACU	24	—	—	—	
		30	—	—	—	30	PW2030B1150CU	27		
	30	30	P3030B1150CU	60	P3060B1150ACU	30	—	—	—	
		40	—	—	—	40	PW3040B1150CU	35		
200	20	40	P2040B1200CU	40	P2040B1200ACU	30	40	PW2040B1200CU	27	
		30	P3040B1200CU	60	P3060B1200ACU	36	40	PW3040B1200CU	35	
	40	40	P3040B1200 ^⑥	60	P3060B1200A ^⑥	36	—	—	—	
			P4040B1200CU ^⑤	80	P4080B1200ACU	36	40	PW4040B1200CU	38	
		54	70	P4040B1200 ^⑥	80	P4080B1200A ^⑥	36	—	—	—
				P5470B1200CU	80	P5480B1200ACU	44	—	—	—
225	42	60	P4260B1225CU ^⑤	80	P4280B1225ACU	39	60	PW4260B1225CU	42	
	54	70	P5470B1225CU ^⑤	80	P5480B1225ACU	44	—	—	—	

Single phase factory installed 22kA IR main circuit breaker offers 22/10kA IR series combination rating when using 10kA type QP, QT, QPF, QE, QN, and QAF2/QAF2C branch breakers.

Main Lug/Convertible Load Centers^⑥

Copper Bus^⑦

12-70 Circuits / 125-225 Amperes

60/75°C Rated, 100,000A IR

Amp Rating	No. of Spaces	Indoor Enclosure - NEMA Type 1					Outdoor Enclosure - NEMA Type 3R			
		No. of Circuits	PL Catalog Number	No. of Circuits	PL with WireGuide Interior Catalog Number ^③	NEMA 1 - Enclosure Height (inches) ^③	No. of Circuits	Catalog Number	NEMA 3R - Enclosure Height (inches) ^④	
125	12	12	P1212L1125CU ^⑤	—	—	18	12	PW1212L1125CU ^⑤	21	
		24	P1224L1125CU ^⑤	—	—	18	24	PW1224L1125CU ^⑤	21	
	16	24	P1624L1125CU	—	—	21	24	PW1624L1125CU	23	
		20	P2020L1125CU ^⑤	40	P2040L1125ACU	24	—	—	—	
	24	P2024L1125CU	24			—	—			
	24	40	P2440L1125CU ^⑤	48	P2448L1125ACU	24	—	—	—	
		30	P3040L1125CU ^⑤	60	P3060L1125ACU	30	40	PW3040L1125CU	35	
150	40	40	P4040L1125CU ^⑤	80	P4080L1125ACU	36	—	—	—	
		40	—	—	—	—	—	—		
200	20	30	P2030L1150CU	40	P2040L1150ACU	24	30	PW2030L1150CU	27	
		40	P2040L1200CU	40	P2040L1200ACU	30	40	PW2040L1200CU	27	
	24	40	P2440L1200CU	48	P2448L1200ACU	30	—	—	—	
			30	P3030L1200CU	—	—	—	—	—	
		30	40	P3040L1200CU ^⑤	60	P3060L1200ACU	36	40	PW3040L1200CU	35
			54	P3054L1200CU				54	PW3054L1200CU	35
	40	40	P3040L1200 ^⑥	60	P3060L1200A ^⑥	36	—	—	—	
			P4040L1200CU ^⑤	80	P4080L1200ACU	36	40	PW4040L1200CU	38	
	225	40	40	P4040L1200 ^⑥	80	P4080L1200A ^⑥	36	—	—	—
			40	—	—	—	—	—	—	
225	12	24	—	—	—	24	PW1224L1225CU	23		
	42	60	P4260L1225CU ^⑤	80	P4280L1225ACU	39	60	PW4260L1225CU	42	
	54	70	P5470L1225CU	80	P5480L1225ACU	44	—	—	—	

① Suitable for use as service equipment.

② May be installed on higher rated systems when protected by a circuit breaker with a higher AIR rating.

③ Indoor enclosures are 14 1/4" wide by 3 7/8" deep.

④ Outdoor enclosures are 14 1/2" wide by 4 1/4" deep.

⑤ Suitable for use as service entrance equipment when not

more than six main disconnecting means are provided. See article 230.71 of the NEC[®].

⑥ 125A load centers will accept MBK100A and MBK125A.

150A load centers will accept MBK150A. 200A load centers will accept MBK200A and MBK150A. 225A load centers will accept MBK225A, MBK200A, MBK150A.

⑦ Copper bus load centers are recommended for those applications where the environment may be severe (i.e. far and coastal areas).

⑧ Includes all PL Series features with aluminum bussing.

⑨ Available (made to order) in white by adding "W" to the end of the part number.

PL Series 1-Phase Special Application Load Centers

1-phase, 3-wire SN, 120/240 Volts AC

Split Ground Series Main Lug Convertible Load Centers Copper Bus 12-60 Circuits / 125-200 Amperes 60/75°C Rated, 100,000A IR

Branch Circuits			Indoor Enclosure – NEMA Type 1	
Amp Rating	No. of Spaces	No. of Circuits	Catalog Number	Enclosure Height (inches) ^②
125	12	24	P1224L1125CUSG	18
125	16	24	P1624L1125CUSG	21
125	20	30	P2030L1125CUSG	24
125	24	30	P2430L1125CUSG	24
150	20	30	P2030L1150CUSG	24
200	30	40	P3040L1200CUSG	36
200	30	40	P3040L1200SG ^①	36
200	40	40	P4040L1200CUSG	36
200	40	40	P4040L1200SG ^①	36
225	40	60	P4260L1225CUSG	39

Split Ground Series Main Breaker Convertible Load Centers Copper Bus 40 Circuits / 200 Amperes 60/75°C Rated, 22,000A IR^③

Branch Circuits			Indoor Enclosure – NEMA Type 1	
Amp Rating	No. of Spaces	No. of Circuits	Catalog Number	Enclosure Height (inches) ^②
200	40	40	P4040B1200CUSG	36

First Surge PL Load Centers Copper Bus 54-60 Circuits 60/75°C Rated, 22,000A IR

Amp Rating	No. of Spaces	No. of Circuits	Catalog Number	Surge Protection	Enclosure Height (inches) ^②
200	30	54	P3054B1200S140	140kA	36
200	40	60	P4060B1200S140	140kA	42

Outdoor Trailer Panels Copper Bus 16 Circuits / 200 Amperes 60/75°C Rated, 22,000A IR^⑤

Amp Rating	No. of Spaces	No. of Circuits	Catalog Number	Main Breaker	Field Installed	Enclosure Height (inches) ^②
200	8	16	PW0816L1200TC	MBK150A or MBK200A	Field Installed	23
200	8	16	PW0816B1200TC	MBK200A	Factory Installed	23



Split Ground Load Centers have factory installed 100% neutral with factory bonded 75% ground. No neutral tie strap.

① Includes all PL Series features with aluminum bussing.
 ② Indoor enclosures are 14 1/4" wide by 3 7/8" deep.
 ③ May be installed on higher rated systems when protected by a circuit breaker with a higher AIR rating.

④ Outdoor enclosures are 14 1/2" wide by 4 1/4" deep.
 ⑤ Main lug panel rated 100,000A IR.
 ⑥ Load centers with white trim have increased lead time of 3-4 weeks. Sold in pallet quantities only.

⑦ Load centers with CUW suffix indicates copper bus with white trim. Load centers with W suffix only indicates aluminum bus with white trim.

PL Series 3-Phase Main Lug & Main Breaker Load Centers

3-phase, 3-wire, 240 Volt AC or 3-phase, 4-wire, 120/240 or 120/208 Volts AC

Main Breaker/Convertible Load Centers 30-70 Circuits / 100-225 Amperes

Copper Bus^{®⑩}
60/75°C Rated, 22,000A IR^①

Branch Circuits			Indoor Enclosure – NEMA Type 1		Outdoor Enclosure – NEMA Type 3R	
Amp Rating	No. of Spaces	No. of Circuits	Catalog Number	Enclosure Height (inches) ^③	Catalog Number	Enclosure Height (inches) ^②
100	12	24	P1224B3100CU ^②	24	—	—
100	30	42	P3042B3100CU ^②	30	—	—
125	30	30	P3030B3125CU	39	—	—
150	24	42	P2442B3150CU	36	—	—
150	42	42	P4242B3150CU	42	—	—
200	30	54	P3054B3200CU	39	PW3054B3200CU	38
200	42	60	P4260B3200CU [®]	42	PW4260B3200CU	42
225	42	60	P4260B3225CU	42	—	—
225	42	60	P4260B3225TCU ^⑥	49	—	—
225	54	70	P5470B3225CU	49	—	—

Main Lug/Convertible Load Centers^⑤ 12-70 Circuits / 125-225 Amperes

Copper Bus^{®⑩}
60/75°C Rated, 100,000A IR^②

Branch Circuits			Indoor Enclosure – NEMA Type 1		Outdoor Enclosure – NEMA Type 3R	
Amp Rating	No. of Spaces	No. of Circuits	Catalog Number	Enclosure Height (inches) ^③	Catalog Number	Enclosure Height (inches) ^④
125	12	24	P1224L3125CU ^②	21	PW1224L3125CU ^②	21
200	24	42	P2442L3200CU	36	PW2442L3200CU	35
200	30	54	P3054L3200CU	39	PW3054L3200CU	38
225	42	60	P4260L3225CU	42	PW4260L3225CU [®]	42
225	54	70	P5470L3225CU	49	—	—

PL Series 3-Phase Unassembled Load Centers

3-phase, 3-wire, 240 Volt AC or 3-phase, 4-wire, 120/240 or 120/208 Volts AC



Main Breaker Convertible Unassembled Load Centers 24-70 Circuits / 100-225 Amperes

Copper Bus^⑤
60/75°C Rated, 22,000A IR^①

Interiors				Enclosure		Trim Kit	
Amp Rating	No. of Spaces	No. of Circuits	Interior Catalog Number	Enclosure Height (inches) ^③	Enclosure Catalog Number	No. Breaker Spaces	Trim Catalog Number ^④
100	30	42	PI3042B3100CU ^②	30	3PE30	30	PT3042B3100
150	24	42	PI2442B3150CU	36	3PE36	24	PT2442X3150
200	30	54	PI3054B3200CU	39	3PE39	30	PT3054X3200
200	42	60	PI4260B3200CU	42	3PE42	42	PT4260X3200
225	54	70	PI5470B3225CU	49	3PE49	54	PT5470X3225

Main Lug Convertible Unassembled Load Centers 12-70 Circuits / 125-225 Amperes

Copper Bus^⑤
60/75°C Rated, 100,000A IR^⑥

Interiors				Enclosure		Trim Kit	
Amp Rating	No. of Spaces	No. of Circuits	Interior Catalog Number	Enclosure Height (inches) ^③	Enclosure Catalog Number	No. Breaker Spaces	Trim Catalog Number ^④
125	12	24	PI1224L3125CU	21	3PE21	12	PT1224L3125
200	24	42	PI2442L3200CU	36	3PE36	24	PT2442X3200
200	30	54	PI3054L3200CU	39	3PE39	30	PT3054X3200
225	42	60	PI4260L3225CU	42	3PE42	42	PT4260X3225
225	54	70	PI5470L3225CU	49	3PE49	54	PT5470X3225

① May be installed on higher rated systems when protected by a circuit breaker with a higher AIR rating.

② Back fed main breaker.

③ Indoor enclosures are 14 1/4" wide by 3 7/8" deep.

④ Trim catalog numbers with a "B" indicate for use with main breaker and is not convertible. "L" indicates for use with main lug and is not convertible. "X" indicates can be used with convertible interior.

⑤ All load center interiors are provided with tin plated copper bus bars.

⑥ Rated 100,000A IR in series with breakers listed on wiring diagram.

ES Series 1-Phase Main Lug & Main Breaker Load Centers

1-phase, 3-wire SN, 120/240 Volts AC

Main Breaker^①

12-70 Circuits / 100-225 Amperes

Aluminum Bus
60/75°C Rated, 22,000A IR^②

Amp Rating	No. of Spaces	Indoor Enclosure – NEMA Type 1					Outdoor Enclosure – NEMA Type 3R			
		No. of Circuits	ES Catalog Number	No. of Circuits	ES with WireGuide Interior Catalog Number ^③	NEMA 1 - Enclosure Height (inches) ^③	No. of Circuits	Catalog Number	NEMA 3R - Enclosure Height (inches) ^④	
100	10	20	S1020B1100	—	—	18	—	—	—	
	12	24	S1224B1100	—	—	18	24	SW1224B1100	21	
	16	24	S1624B1100 ^⑤	—	—	21	24	SW1624B1100	23	
	20	20	S2020B1100	40	S2040B1100A	24	20	SW2020B1100	27	
	24	24	S2024B1100				—	—		
30	30	S3030B1100 ^⑤	60	S3060B1100A	30	—	—	—		
125	12	24	—	—	—	21	24	SW1224B1125	21	
	16	24	S1624B1125	—	—	21	—	—	—	
		32	—	—	—	—	24	SW2024B1125	27	
	24	24	S2424B1125 ^⑤	48	S2448B1125A	24	24	SW2424B1125	27	
	30	30	S3030B1125 ^⑤	60	S3060B1125A	30	—	—	—	
40	40	S3040B1125	40				SW3040B1125	35		
150	16	30	S1630B1150	—	—	24	—	—	—	
	20	30	S2030B1150	40	S2040B1200A	24	—	—	—	
	24	30	S2430B1150	48	S2448B1200A	24	—	—	—	
	30	30	S3030B1150 ^⑤	60	S3060B1150A	30	—	—	—	
	40	40	S3040B1150				40	SW3040B1150	35	
40	40	—	—	—	—	40	SW4040B1150	38		
200	16	32	S1632B1200	—	—	24	—	—	—	
	20	40	S2040B1200	40	S2040B1200A	30	40	SW2040B1200	27	
	24	40	S2440B1200	48	S2448B1200A	30	—	—	—	
	30	40	S3040B1200 ^⑤	60	S3060B1200A	36	40	SW3040B1200	35	
	40	40	S4040B1200 ^⑤	80	S4080B1200A	36	40	SW4040B1200	38	
	42	60	S4260B1200	80	S4280B1200A	39	—	—	—	
225	54	70	S5470B1200	80	S5480B1200A	44	—	—	—	
	42	60	S4260B1225	80	S4280B1225A	39	60	SW4260B1225	42	
	54	70	S5470B1225	80	S5480B1225A	44	—	—	—	

Main Lug

12-70 Circuits / 125-225 Amperes

Aluminum Bus
60/75°C Rated, 100,000A IR

Amp Rating	No. of Spaces	Indoor Enclosure - NEMA Type 1					Outdoor Enclosure - NEMA Type 3R			
		No. of Circuits	ES Catalog Number ⁽⁶⁾	No. of Circuits	ES with WireGuide Interior Catalog Number ^{③⑤}	NEMA 1 - Enclosure Height (inches) ^③	No. of Circuits	Catalog Number	NEMA 3R - Enclosure Height (inches) ^④	
125	12	12	S1212L1125 ^⑤	—	—	18	12	SW1212L1125 ^⑤	21	
		24	S1224L1125 ^⑤	—	—	18	24	SW1224L1125 ^⑤	21	
	16	24	S1624L1125	—	—	21	24	SW1624L1125	21	
		20	S2020L1125 ^⑤	40	S2040L1125AG	21	—	—	—	
		20	S2020L1125G ^⑤				—	—	—	
		24	S2024L1125				—	—	—	
	24	S2024L1125G	—				—	—		
	24	24	S2424L1125 ^⑤	48	S2448L1125AG	24	24	SW2424L1125	27	
		24	S2424L1125G ^⑤				—	—	—	
		40	S2440L1125 ^⑤				—	—	—	
30	40	S2440L1125G	—	—	—	—	—	—		
	40	S3040L1125 ^⑤	—	S3060L1125AG	30	40	SW3040L1125	29		
	40	S3040L1125G ^⑤	—	—	—	—	—	—		
40	40	S4040L1125	80	S4080L1125AG	36	—	—	—		
	40	S4040L1125	80	S4080L1125AG	36	—	—	—		
200	20	30	S2030L1150 ^⑤	40	S2040L1150AG	24	30	SW2030L1150	27	
		24	S1224L1200 ^⑤	—	—	21	24	SW1224L1200 ^⑤	21	
	24	40	S2040L1200	40	S2040L1200AG	24	40	SW2040L1200	27	
		40	S2440L1200 ^⑤	48	S2448L1200AG	30	—	—	—	
	30	30	S3030L1200 ^⑤	60	S3060L1200AG	30	—	—	—	
		40	S3040L1200 ^⑤				40	SW3040L1200	35	
		54	S3054L1200				54	SW3054L1200	35	
		40	S3040L1200L50 ^⑦				—	—	36	—
	40	40	S4040L1200 ^⑤	80	S4080L1200AG	36	40	SW4040L1200	35	
	225	12	24	—	—	—	24	SW1224L1225	23	
42		60	S4260L1225	80	S4280L1225AG	36	60	SW4260L1225	38	
54		70	S5470L1225	80	S5480L1225AG	42	—	—	—	

① Suitable for use as service equipment.

② May be installed on higher rated systems when protected by a circuit breaker with a higher AIR rating.

③ Indoor enclosures are 14 1/4" wide by 3 7/8" deep.

④ Outdoor enclosures are 14 1/2" wide by 4 1/4" deep.

⑤ Suitable for use as service entrance equipment when not more than six main disconnecting means are provided. See article 230.71 of the NEC[®].

⑥ ES Series single phase skus with a "G" suffix have ground bar included (factory installed).

⑦ Line and Neutral Lug Wire Range: 500 kcmil - #2 AL/CU

⑧ Available (made to order) in white by adding "W" to the end of the part number.

ES Series 1-Phase Unassembled Load Centers

1-phase, 3-wire SN, 120/240 Volts AC

Features

- Available for the most popular ES Load Centers
- Gives the ability to order in bulk
- Enclosures will have minimal packaging for less hassle and waste at the job site
- Keeps the covers separate to prevent damage or theft
- Includes full size cardboard covers to keep the interior safe during painting
- All main lug panels include factory installed ground bars



Main Breaker ES Unassembled Load Centers^① 24-40 Circuits / 125-200 Amperes

Aluminum Bus
60/75°C Rated, 22,000A IR^②

Amp Rating	Box Catalog Number	Main	No. of Spaces	No. of Circuits	Dimensions			Trim Catalog Number	Pallet Quantity
					Height	Width	Depth		
125	SB2424B1125	Main Breaker	24	24	24	14.5	4.25	ST2424B1125	36
200	SB3040B1200	Main Breaker	30	40	36	14.5	4.25	ST3040B1200	30
200	SB4040B1200	Main Breaker	40	40	36	14.5	4.25	ST4040B1200 ^④	30

Selectable Main ES Unassembled Load Centers^③ 30-40 Circuits / 200 Amperes

Aluminum Bus

Amp Rating	Box Catalog Number	Main	No. of Spaces	No. of Circuits	Dimensions			Trim Catalog Number	Pallet Quantity
					Height	Width	Depth		
150/200	SB3040C1200G	Convertible	30	40	36	14.5	4.25	ST3040X1200	30
150/200	SB4040C1200G	Convertible	40	40	36	14.5	4.25	ST4040X1200	30

Main Lug ES Unassembled Load Centers^③ 24-40 Circuits / 125-200 Amperes

Aluminum Bus
60/75°C Rated, 100,000A IR

Amp Rating	Box Catalog Number	Main	No. of Spaces	No. of Circuits	Dimensions			Trim Catalog Number	Pallet Quantity
					Height	Width	Depth		
125	SB2440L1125G	Main Lug	24	40	24	14.5	4.25	ST2440L1125	36
125	SB3040L1125G	Main Lug	30	40	30	14.5	4.25	ST3040L1125	36
200	SB3040L1200G	Main Lug	30	40	30	14.5	4.25	ST3040L1200	36
200	SB4040L1200G	Main Lug	40	40	36	14.5	4.25	ST4040L1200	30

^① Suitable for use as service equipment.

^② May be installed on higher rated systems when protected by a circuit breaker with a higher AIR rating.

^③ ES Series single phase skus with a "G" suffix have ground bar included (factory installed).

^④ Available (made to order) in white by adding "W" to the end of the part number.

ES Series 1-Phase Special Load Centers

1-phase, 3-wire SN, 120/240 Volts AC

First Surge ES Load Centers

54-60 Circuits

Aluminum Bus

60/75°C Rated, 22,000A IR

Amp Rating	No. of Spaces	No. of Circuits	Catalog Number	Surge Protection	Enclosure Height (inches) ^②
200	30	54	S3054B1200S060	60kA	36
200	40	60	S4060B1200S060	60kA	42

Outdoor Trailer Panels

16 Circuits / 200 Amperes

Aluminum Bus

60/75°C Rated, 100,000A IR

Amp Rating	No. of Spaces	No. of Circuits	Catalog Number	Main Breaker	Enclosure Height (inches) ^②
200	8	16	SW0816L1200T	N/A	23
200	8	16	SW0816B1200T ^⑤	MBK200A	23

Value Pack Load Centers^③

Aluminum Bus

Catalog Number	Load Center	Breakers Included	Amp	NO. of Spaces	No. of Circuits
S2020B1100P	S2020B1100	(3) Q120, (1) Q230	100	20	20
S3040B1200P	S3040B1200	(3) Q120, (1) Q230	200	30	40
S3040L1200P	S3040L1200	(3) Q120, (1) Q230	200	30	40
S4040B1200P	S4040B1200	(3) Q120, (1) Q230	200	30	40
S3054B1200P	N/A	(3) Q120, (1) Q230	200	30	54

Split Ground Series Load Centers^④

30-40 Circuits / 125-200 Amperes

16 Circuits / 200 Amperes

Aluminum Bus

Branch Circuits			Indoor Enclosure – NEMA Type 1	
Amp Rating	No. of Spaces	No. of Circuits	Catalog Number	Enclosure Height (inches) ^②
125	20	30	S2030L1125SG	21
150	30	30	S3030B1150SG	30
200	40	40	S4040B1200SG	36

Selectable Main Load Centers^⑦

24-40 Circuits / 125-200 Amperes

Aluminum Bus

Branch Circuits			Indoor Enclosure – NEMA Type 1		Outdoor Enclosure – NEMA Type 3R		Available Kits	
Amp Rating	No. of Spaces	No. of Circuits	Catalog Number	Enclosure Height (inches) ^②	Catalog Number	Enclosure Height (inches) ^④	Main Lug	Main Breaker
125	24	24	S2424C1125	24	SW2424C1125	27	ECMLK125	MBK100A, MBK125A
200	20	40	S2040C1200	35	SW2040C1200	35	ECMLK225	MBK200A
200	30	40	S3040C1200	36	SW3040C1200	35	ECMLK225	MBK150A, MBK200A
200	40	40	S4040C1200	36	SW4040C1200	38	ECMLK225	MBK150A, MBK200A

① Load centers with white trim have increased lead time of 3-4 weeks. Sold in pallet quantities only. Additional charge will apply. Contact sales office for details.

② Indoor enclosures are 14 1/4" wide by 3 7/8" deep.

③ Breakers are shipped inside a sleeve located inside the load center.

④ Outdoor enclosures are 14 1/2" wide by 4 1/4" deep.

⑤ Main breaker rated 22,000A IR.

⑥ Split Ground load centers have factory installed 100% neutral with factory bonded 75% ground.

⑦ Selectable main load centers do not come with main lugs or main breakers. Those kits are sold separately.

ES Series 3-Phase Main Lug & Main Breaker Load Centers

3-phase, 3-wire, 240 Volt AC or 3-phase, 4-wire, 120/240 or 120/208 Volts AC

Main Breaker

30-60 Circuits / 100-225 Amperes

Aluminum Bus

60/75°C Rated, 10,000A IR^①

Branch Circuits			Indoor Enclosure – NEMA Type 1		Outdoor Enclosure – NEMA Type 3R	
Amp Rating	No. of Spaces	No. of Circuits	Catalog Number	Enclosure Height (inches) ^③	Catalog Number	Enclosure Height (inches) ^④
100	12	24	S1224B3100 ^②	24	SW1224B3100	23
100	30	30	S3030B3100 ^②	30	—	—
100	30	42	S3042B3100 ^②	30	—	—
125	30	42	S3042B3125	35	—	—
150	24	42	S2442B3150	36	SW2442B3150	35
150	42	42	S4242B3150	42	—	—
150	30	54	S3054B3150	35	—	—
200	30	54	S3054B3200	39	SW3054B3200	38
200	42	60	S4260B3200	42	SW4260B3200	42
225	42	42	S4242B3225	42	SW4242B3225	42

Main Lug^⑤

12-70 Circuits / 125-225 Amperes

Aluminum Bus

60/75°C Rated, 100,000A IR^⑥

Branch Circuits			Indoor Enclosure – NEMA Type 1		Outdoor Enclosure – NEMA Type 3R	
Amp Rating	No. of Spaces	No. of Circuits	Catalog Number	Enclosure Height (inches) ^③	Catalog Number	Enclosure Height (inches) ^④
125	12	24	S1224L3125	21	SW1224L3125	21
150	18	36	S1836L3150	24	SW1836L3150	23
150	24	42	S2442L3150	30	SW2442L3150	27
200	12	24	S1224L3200	21	SW1224L3200	21
200	24	42	S2442L3200	30	SW2442L3200	27
200	30	54	S3054L3200 ^②	30	SW3054L3200	35
225	42	60	S4260L3225 ^②	36	SW4260L3225	38
225	54	70	S5470L3225 ^②	42	—	—

① May be installed on higher rated systems when protected by a circuit breaker with a higher AIR rating.

② Back fed main breaker.

③ Indoor enclosures are 14 1/4" wide by 3 7/8" deep.

④ Outdoor enclosures are 14 1/2" wide by 4 1/4" deep.

⑤ Suitable for use as service entrance equipment when not more than six main disconnecting means are provided. See article 230.71 of the NEC.

⑥ Rated 100,000A IR in series with breakers listed on wiring diagram.

⑦ Available (made to order) in white by adding "W" to the end of the part number.

EQ® Load Centers—300-400 Amp

1-Phase, 3-Wire/3-Phase, 3-Wire, 4-Wire

Features

- UL listed for 60/75°C conductors. See equipment markings for applications.
- Copper bus standard.
- Factory installed lock on indoor enclosure.
- Outdoor enclosures use HV type hubs. See page 1-22.



Main Breaker 300-400 Ampere^① 1Ø, 3-Wire

120/240 Volts AC

Ampere Rating	Branch Circuits Type QP		Indoor Enclosure — NEMA Type 1 (65,000A IR)						Outdoor Enclosure — NEMA Type 3R (65,000A IR)				
	Max. 1-Pole	Max. 2-Poles	Catalog Number [®]	Std. Pkg.	Dimensions (inches)			Trim Style	Catalog Number	Std. Pkg.	Dimensions (inches)		
					Height	Width	Depth				Height	Width	Depth [®]
300	42	20	E4242MB1300FCU	1	58	20	6	Flush	—	—	—	—	—
300	42	20	E4242MB1300SCU	1	58	20	6	Surface	—	—	—	—	—
400	30	14	E3030MB1400SCU	1	52	20	6	Surface	W3030MB1400CU	1	52	20	6
400	42	20	E4242MB1400FCU	1	58	20	6	Flush	W4242MB1400CU	1	58	20	6
400	42	20	E4242MB1400SCU	1	58	20	6	Surface	—	—	—	—	—

3Ø, 3-Wire, 4-Wire

240 Volts AC

Ampere Rating	Branch Circuits Type QP		Indoor Enclosure — NEMA Type 1 (65,000A IR)						Outdoor Enclosure — NEMA Type 3R (65,000A IR)				
	Max. 1-Pole	Max. 2-Poles	Catalog Number [®]	Std. Pkg.	Dimensions (inches)			Trim Style	Catalog Number	Std. Pkg.	Dimensions (inches)		
					Height	Width	Depth				Height	Width	Depth [®]
300	42	20	E4242MB3300SCU	1	58	20	6	Surface	—	—	—	—	—
400	30	14	E3030MB3400SCU	1	52	20	6	Surface	—	—	—	—	—
400	42	20	E4242MB3400FCU	1	58	20	6	Flush	W4242MB3400CU	1	58	20	6
400	42	20	E4242MB3400SCU	1	58	20	6	Surface	—	—	—	—	—

Main Lug 400 Ampere

1Ø, 3-Wire

120/240 Volts AC

Ampere Rating	Branch Circuits Type QP		Indoor Enclosure — NEMA Type 1 (65,000A IR)						Outdoor Enclosure — NEMA Type 3R (65,000A IR)				
	Max. 1-Pole	Max. 2-Poles	Catalog Number [®]	Std. Pkg.	Dimensions (inches)			Trim Style	Catalog Number	Std. Pkg.	Dimensions (inches)		
					Height	Width	Depth				Height	Width	Depth [®]
400	24	12	—	—	—	—	—	—	W0606ML1400CU ^{②③④}	1	43	20	6
400	30	14	E3030ML1400SCU	1	41	20	6	Surface	W3030ML1400CU	1	43	20	6
400	42	20	E4242ML1400SCU	1	47	20	6	Surface	—	—	—	—	—
400	42	20	E4242ML1400FCU	1	47	20	6	Flush	W4242ML1400CU	—	47	20	6

3Ø, 3-Wire, 4-Wire

240 Volts AC

Ampere Rating	Branch Circuits Type QP		Indoor Enclosure — NEMA Type 1 (22,000A IR)						Outdoor Enclosure — NEMA Type 3R (22,000A IR)				
	Max. 1-Pole	Max. 2-Poles	Catalog Number	Std. Pkg.	Dimensions (inches)			Trim Style	Catalog Number	Std. Pkg.	Dimensions (inches)		
					Height	Width	Depth				Height	Width	Depth [®]
400	30	14	E3030ML3400SCU	1	41	20	6	Surface	—	—	—	—	—
400	42	20	E4242ML3400FCU	1	47	20	6	Flush	W4242ML3400CU	1	47	20	6
400	42	20	E4242ML3400SCU	1	47	20	6	Surface	—	—	—	—	—

① UL listed as suitable for use as service equipment.

② W0606ML1400CU rated at 22,000A IR.

③ Where noted suffix S = Surface, F = Flush.

④ Does not include 2" rainhead overhang.

⑤ Accepts up to six QN style breakers.

⑥ Suitable for use as service entrance equipment when not more than six main disconnecting means are provided.

Generator Ready Load Centers

1-Phase, 3-Wire SN, 120/240 Volts AC

Generator Ready Load Centers

The Siemens generator ready load center can save thousands of dollars in future generator installation expenses while keeping initial expenses to a minimum. Works with an automatic standby generator or a portable generator.

Load Center Features

- UL Listed
- Indoor Type 1 and outdoor Type 3R
- 225A max rated
- Flush or surface mounting
- Fits between standard stud centers
- Tin plated copper bus bars
- 22 kAIC rated
- 120/240V ~
- Main lug – convertible to main breaker with addition of MBK150A, MBK200A, or MBK225A
- Main breaker – convertible to main lug with use of lug kit part no. ECMLK225
- Installation of transfer mechanism can be performed at time of generator installation.

Automatic transfer switch features:

- UL Listed
- Operates automatically when connected to generator
- Transfers load from utility to generator and back to utility
- Transfer switch (sold separately)
catalog number: GENTFRSWTCH^{①③}

Indoor Enclosure – NEMA Type 1

Amp Rating	No. of Spaces ^②	No. of Circuits ^②	Catalog Number	Dimensions (inches)		
				Height	Width	Depth
200	30	42	G3042B1200GEN	42	14.25	4
225	30	42	G3042L1225GEN	42	14.25	4
200	42	54	G4254B1200GEN	44	14.25	4
225	42	54	G4254L1225GEN	44	14.25	4

Outdoor Enclosure – NEMA Type 3R

Amp Rating	No. of Spaces ^②	No. of Circuits ^②	Catalog Number	Dimensions (inches)		
				Height	Width	Depth
200	30	42	W3042B1200GEN	42	14.63	4
225	30	42	W3042L1225GEN	42	14.63	4

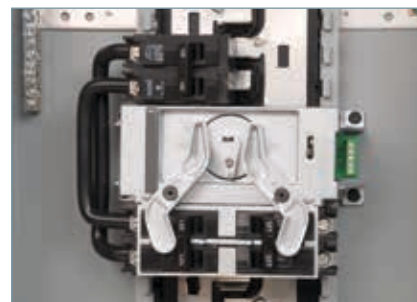
^① Q2125S provided with GENTFRSWTCH for use with automatic transfer mechanism.

^② 2 spaces and 2 circuits are reserved for standby generator installation.

^③ Field install breaker for voltage sensing required.



NEMA 1



GENTFRSWTCH



NEMA 3R

Riser Panel Load Centers

1-Phase, 3-Wire SN, 120/240 Volts AC

Riser Panel Load Centers^①

Riser panel load centers are ideal for high rise applications. The shifted interior provides room for conductors to pass through the load center. The tap kits allow the installer to tap off from those conductors to power the panel.

Features

- UL Listed for use in 1Ø and 3Ø riser gutter applications.
- Copper bus standard.
- Main lug factory standard - convertible to main breaker.
- Neutrals aligned on left side- keeps way clear for riser cables.
- Available in 125 and 200 amp models.
- Invertible for left and right hand applications.

Riser Gutter Tap Kit^②

The riser gutter tap kit (ECRLK250) allows the installer to tap off the main conductors, eliminating the need to cut completely through the conductor. The tap kit accepts 250 -1/0 on the main conductor side and 250-#6 on the tap side.



R1632L1125CU



ECRLK250

Riser Gutter

The riser gutter (RAG24) is used to convert any load center 24" or larger into a riser panel.

Features

- Single and 3-phase applications
- Compatible with any single or 3-phase Siemens load center 24" or higher
- Flush trim included
- Load center mounting hardware and pass through brush included (Catalog no. RAG24)



Any Load Center
24" or larger



RAG24

1-phase, 3-wire SN, 120/240 Volts AC

Amp Rating	No. of Spaces	No. of Circuits	Catalog Number				Dimensions (inches)			Acceptable Main Breaker Kits
			Aluminum Bus	Aluminum Bus White Coating	Copper Bus	Copper Bus White Coating	Height	Width	Depth	
125	16	32	R1632L1125	R1632L1125W	R1632L1125CU	—	24	14.25	3.88	MBK100A, MBK125A
125	24	24	R2424L1125	R2424L1125W	R2424L1125CU	—	30	14.25	3.88	MBK100A, MBK125A
125	24	42	R2442L1125	R2442L1125W	R2442L1125CU	R2442L1125CUW	30	14.25	3.88	MBK100A, MBK125A
200	30	42	R3042L1200	R3042L1200W	R3042L1200CU	R3042L1200CUW	36	14.25	3.88	MBK150A, MBK200A

① The riser panels are single phase only, but can be fed from 1-phase or 3-phase systems running through the gutter trough area.

② ECRLK250 is sold separately

EQ® Load Centers—Small Circuit Load Centers

1-Phase, 3-Wire SN, 120/240 Volts AC

Features/Applications

EQ Load Centers with main lugs feature a combination trim box in one package.

- Interiors offer removal in seconds
- Single phase
- One piece bus bar construction designed for use only with circuit breakers
- UL Listed
- UL listed on 60/75°C conductors (see equipment markings for applications)
- Positive load side circuit breaker hook rails
- Outdoor Type 3R devices use HS Type hubs. See page 1-22.



Small Circuit Load Centers

Ideal for subfeed applications



Renovation Panel

Ideal for older home renovation projects where the distance between the studs is narrower than current construction practices. The narrower panel eliminates the need to 'notch' out the existing studs.



Spa Panels

Spa Panels are ideal for outdoor applications requiring the use of ground fault protection, such as hot tubs. A factory installed 2-Pole GFCI breaker is provided, along with 2 extra circuits.

Main Lugs with Aluminum Bus^⑥ 4–16 circuits, 100–125 Amperes

100,000A IR
1-Phase, 3-Wire, SN 120/240 Volts AC

Branch Circuits				Indoor Enclosure — NEMA Type 1					Outdoor Enclosure — NEMA Type 3R				
Amp Rating	Max. 1-Pole No. of Spaces	No. of Circuits	QP Max. 2-Poles	Catalog Number—Replace Suffix F (Flush) with S for Surface Mounting	Std. Pkg.	Dimensions (inches)			Catalog Number	Std. Pkg.	Dimensions (inches)		
						H	W	D			H	W	D
100	12	24	6	E1224ML1100FG ^⑥	1	14 3/4	12 3/8	3 7/8	—	—	—	—	
125	4	8	2	E0408ML1125F ^{⑥⑦⑧}	5	12 5/8	6 5/8	3 1/2	W0408ML1125 ^{⑧⑨}	5	12 1/4	6	4 1/4
125	4	8	2	—	—	—	—	—	W0408L1125SPA50 ^{⑧⑨}	1	12 1/4	6	4 1/4
125	4	8	2	—	—	—	—	—	W0408L1125SPA60 ^{⑧⑨}	1	12 1/4	6	4 1/4
125	8	16	4	E0816ML1125F ^⑥	1	14 3/4	12 3/8	3 7/8	—	—	—	—	

Main Lug and Main Breaker with Copper Bus^{⑥⑨} 4–16 circuits, 100–225 Amperes

100,000A IR
1-Phase, 3-Wire, SN 120/240 Volts AC

Branch Circuits				Indoor Enclosure — NEMA Type 1					Outdoor Enclosure — NEMA Type 3R				
Amp Rating	Max. 1-Pole No. of Spaces	No. of Circuits	QP Max. 2-Poles	Catalog Number	Std. Pkg.	Dimensions (inches)			Catalog Number	Std. Pkg.	Dimensions (inches)		
						H	W	D			H	W	D
100	10	20	4	E1020MB1100FCGP ^⑥	1	14 3/4	12 3/8	3 7/8	—	—	—	—	
100	12	24	6	E1224ML1100FCU	1	14 3/4	12 3/8	3 7/8	—	—	—	—	
125	8	16	4	E0816ML1125FCU ^⑥	1	14 3/4	12 3/8	3 7/8	W0816ML1125CU ^⑥	1	14 3/4	12 1/8	4 1/4
125	8	16	4	E0816ML1125SCU	1	14 3/4	12 3/8	3 7/8	—	—	—	—	
225	4	6	2	—	1	—	—	—	W0406ML1225CU ^⑥	1	23	10	4 1/8
200	4	4	2	—	1	—	—	—	W0404MB1200CT ^{⑥⑧}	1	20	11 1/8	4 3/4
150	4	4	2	—	1	—	—	—	W0404MB1150CTS ^{⑥⑧}	1	20	11 1/8	4 3/4
200	4	4	2	—	1	—	—	—	W0404MB1200CTS ^{⑥⑧}	1	20	11 1/8	4 3/4

① 70 amp maximum breaker.
 ② Will not accommodate 2-pole GFCI or circuit breaker with shunt trip.
 ③ Can accommodate 2-pole GFCI breaker up to 50A. For 2-pole 60A GFCI, a restriction of #6 wire applies due to wire bend space of the enclosure. Will not accommodate circuit breaker with shunt trip.
 ④ 100 amp maximum breaker.

⑤ Suitable for use as service entrance equipment when a main breaker (125A maximum) is back-fed in a branch position and used with main breaker retainer clip (Cat. No. ECMBR1).
 ⑥ Suitable for use as service entrance when not more than six main disconnecting means are provided. Check local codes and restrictions.
 ⑦ Two Q115 and one Q230 breaker included.
 ⑧ W0408L1125SPA50 provided with factory installed QF50 and ground bar. W0408L1125SPA60 provided with factory installed QF260 and ground bar.

⑨ Copper Bus load centers are recommended for those applications where the environment may be severe (i.e. farm and coastal areas).
 ⑩ 2" HS Type hub provided.
 ⑪ Type QNR main breaker factory installed.
 ⑫ CSA Listed
 ⑬ Cover plate included

EQ® Load Centers—Circuit Breaker Enclosures

1-Phase and 3-Phase, 240V AC Max.

Features

- Circuit breaker enclosures range from 60A to 250A, indoor and outdoor models
- Designed for use exclusively with QP, QT, QPH, HQP, BQ, BQH, HBQ, QPP, QPPH, HQPP, QR2, QRH2, HQR2, and HQR2H circuit breakers
- UL listed
- Suitable for use as service entrance equipment
- UL listed for 60/75°C conductors (See equipment markings for applications)
- Outdoor type 3R devices use HS type hubs (pg. 1-21) except for the W0204ML1060 which uses the HA type hub



Amp. Rating	No. of Poles	Indoor Enclosure - NEMA Type 1							Outdoor Enclosure - NEMA Type 3R						
		Catalog Number	Breaker Used [®]	Max Short Circuit Rating	Std. Pkg.	Dimensions (inches)			Catalog Number	Breaker Used [®]	Max Short Circuit Rating	Std. Pkg.	Dimensions (inches)		
						H	W	D					H	W	D

1-Phase, 3-Wire SN - 120/240 Volts AC - Breaker Factory Installed

100	2	E0202MB1100	Q2100	22k	1	17.2	7.2	4.3	W0202MB1100CU	Q2100	22k	1	17.2	7.3	4.3
150	2	—	—	—	—	—	—	—	W0202MB1150CU	QN2150H	65k	1	19.8	8.7	5
200		E0202MB1200	QN2200	22k	1	20	8.7	4	W0202MB1200CU	QN2200H	65k				
150	2	—	—	—	—	—	—	—	WB2150BQR	QR22B150L	10k	1	26.9	7.1	4.4
200		—	—	—	—	—	—	—	WB2200BQR	QR22B200L	10k				
225		—	—	—	—	—	—	—	WB2225BQR	QR22B225L	10k				

1-Phase, 3-Wire SN - 120/240 Volts AC - Enclosure Only

60	2	E0204ML1060S [®]	QP, QPH, or HQP	100k [®]	5	9.9	5.2	2.7	W0204ML1060 [®]	QP, QPH, or HQP	100k [®]	5	8.1	5.5	3.5
	2	E0204ML1060F [®]							—						
125	2	E0204ML1125SCU [®]	QP, QPH	22k	1	17.3	7.3	4.3	W0204ML1125CU [®]	QP or QPH	22k	1	17.2	7.3	4.3
	2	E0204ML1125FCU [®]							—						
200	2	—	—	—	—	—	—	W0202ML1200CU	QN, QNH, or HQN	65k	1	19.8	8.7	5	
225	1-4	—	—	—	—	—	—	W0406ML1225CU	QPP or QP	10k	1	23.2	10.4	4.5	
225	2	—	—	—	—	—	—	QR2N3R2	QR2, QRH2, or HQR2	65k	1	26.9	7.1	4.4	
250	2	QR2N1S	QR2, QRH2, HQR2, or HQR2H	100k	1	31.4	9.6	5.6	—	—	—	—	—	—	—
	2	QR2N1F							—	—	—	—	—		

3-Phase, 3-Wire 240 Volts AC or 3-Phase, 4-Wire SN — 120/208 Volts AC, 120/240, 240 Volts AC - Enclosure Only

100	2-3	E0303ML3100S [®]	QP or QPH	22k	1	17.3	7.3	4.3	W0303ML3100 [®]	QP or QPH	22k	1	17.2	7.3	4.3
100	2-3	EB3100S [®]	BQ or BQH	22k	1	17.3	7.3	4.3	WB3100 [®]	BQ or BQH	22k	1	17.2	7.3	4.3
250	2-3	QR2N1S	QR2, QRH2, HQR2, or HQR2H	100k	1	31.4	9.6	5.6	QR2N3R3	QR2, QRH2, HQR2, or HQR2H	100k	1	31.4	9.6	5.6
		QR2N1F							—						

® Additional breaker types may be listed on the wiring diagram.

® Will not accommodate 2-pole GFCI or Circuit breaker with shunt trip.

® Can accommodate 2-pole GFCI breaker up to 60A.

® CSA Listed

® Will not accommodate circuit breaker with shunt trip.

® Series rating

Load Centers

Load Center OEM Interiors^①

10: Small Circuit Main Lug Interiors

Amps	Catalog Number ^②	Spaces	Circuits	Dimensions	
				Height	Width
60	I0204ML1125CU	2	2	4.40	1.85
60	I0303ML3100CU	3	3	5.77	3.42
125	I0408ML1125	4	8	4.51	6.61
125	I0816ML1125CU	8	16	6.19	6.81
125	I0816ML1125CUSP	8	16	6.19	6.81
200	I0202L1200	4	4	3.88	7.13
200	I1220L1200CT	12	20	9.00	7.00

10: High Circuit Main Lug Interiors with Neutral Bars^④

Amps	Catalog Number ^②	Spaces	Circuits	Dimensions	
				Height	Width
125	I1224L1125CU	12	24	10.80	9.80
125	I1624L1125CU	16	24	12.80	9.80
125	I3040L1125CU	30	40	20.80	9.80
200	I0816L1200CT ^④	8	16	10.80	9.80
200	I1224L1200CU	12	24	10.80	9.80
200	I1632L1200CU	16	32	12.80	9.80
200	I2040L1200CU	20	40	14.80	9.80
200	I3040L1200CU	30	40	14.80	9.80
200	I4040L1200CU	40	40	24.80	9.80
225	I4242L1225CU	42	42	26.80	9.80

30: Main Lug Interiors^②

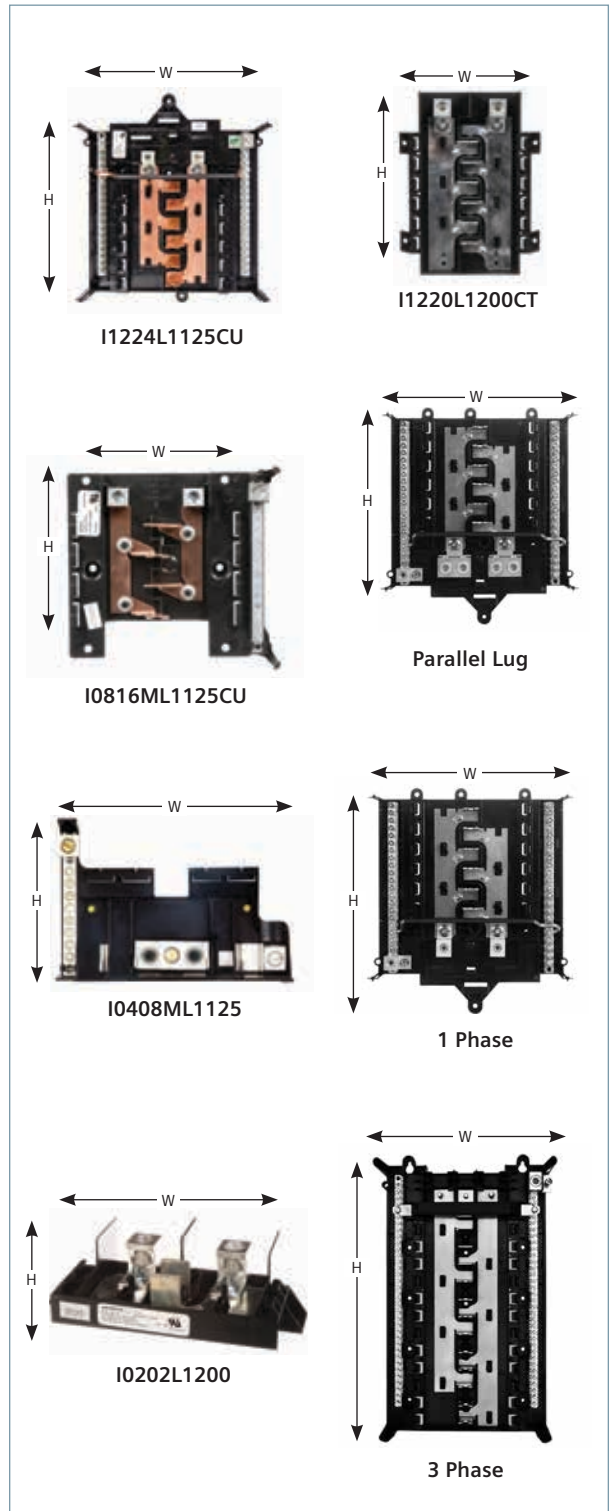
Amps	Catalog Number	Spaces	Circuits	Dimensions	
				Height	Width
125	SI1224L3125B	12	24	10.04	9.95
200	SI1224L3200B	12	24	10.04	9.95
200	SI2442L3200B	24	42	16.04	9.95
200	SI3054L3200B	30	54	19.04	9.95
225	SI4242L3225B	42	42	25.04	9.95
125	PI1224L3125CUB	12	24	10.04	9.95
200	PI1224L3200CUB	12	24	10.04	9.95
200	PI1836L3200CUB	18	36	13.04	9.95
125	PI1836L3125CUB	18	36	13.04	9.95
200	PI2442L3200CUB	24	42	10.04	9.95
200	PI3054L3200CUB	30	54	19.04	9.95
225	PI4242L3225CUB	42	42	25.04	9.95

10: Parallel Lug Interiors with Neutral Bars

Amps	Catalog Number ^②	Spaces	Circuits	Dimensions	
				Height	Width
200	CTI2040L1200CU	20	40	14.80	9.80
200	CTI2440L1200CU	24	40	16.80	9.80
200	CTI3040L1200CU	30	40	20.80	9.80

Lug Data

Interior	Amperage	Wire range	Torque
I0204ML1060	60	2/0 - 4 AWG	45 lb. - ins.
I0303ML3100	100	2/0 - 4 AWG	45 lb. - ins.
I1224ML1100	100	2/0 - 4 AWG	45 lb. - ins.
I0408ML1125	125	2/0 - 4 AWG	45 lb. - ins.
I0816ML1125CU/CUSP	60	2/0 - 4 AWG	45 lb. - ins.
Single Phase	125	2/0 - 4 AWG	110 lb. - ins.
Single Phase	200/225	300 kcmil - 4 AWG	250 lb. - ins.
Three Phase	125	300 kcmil - 6 AWG	340 lb. - ins.
Three Phase	200/225	300 kcmil - 6 AWG	340 lb. - ins.



① UL Recognized Components.

② The letters "CU" in any catalog number represent copper bus bars.

③ Feed thru lugs provided.

④ Convertible to main breaker using the MBK main breaker kits.

Load Centers

Load Center Accessories[Ⓞ]

Catalog Number	Description	Pack Qty
----------------	-------------	----------

Ground Bar Kits (For ES and PL Load Centers)

EC1GB8	GROUND BAR KIT-8 POS	1
EC1GB82	GROUND BAR KIT-8 POS, 2/0 LUG	1
EC2GB12	GROUND BAR KIT-12 POS	1
EC2GB122	GROUND BAR KIT-12 POS, 2/0 LUG	1
EC2GB15	GROUND BAR KIT-15 POS	1
EC2GB152	GROUND BAR KIT-15 POS, 2/0 LUG	1
EC3GB21	GROUND BAR KIT-21 POS	1
EC3GB212	GROUND BAR KIT-21 POS, 2/0 LUG	1
EC3GB27	GROUND BAR KIT-27 POS	1
EC3GB272	GROUND BAR KIT-27 POS, 2/0 LUG	1
EC3GB30	GROUND BAR KIT-30 POS	1
EC3GB302	GROUND BAR KIT-30 POS, 2/0 LUG	1
EC3GB352	GROUND BAR KIT-35 POS, 2/0 LUG	1
EC3GB352G	GROUND BAR KIT-35 POS, 2/0 LUG [Ⓞ]	1

Ground Bar Kits (For Legacy Load Centers)

ECGB5	GROUND BAR KIT-5 POS	1
ECGB10	GROUND BAR KIT-10 POS	1
ECGB101	GROUND BAR KIT-10 POS, 1/0 LUG	1
ECGB14	GROUND BAR KIT-14 POS	1
ECGB141	GROUND BAR KIT-14 POS, 1/0 LUG	1
ECGB142	GROUND BAR KIT-14 POS, 2/0 LUG	1
ECGB20	GROUND BAR KIT-20 POS	1
ECGB201	GROUND BAR KIT-20 POS, 1/0 LUG	1
ECGB202	GROUND BAR KIT-20 POS, 2/0 LUG	1
ECINSGB5	INSULATED GROUND BAR KIT-5 POS	1
ECINSGB14	INSULATED GROUND BAR KIT-14 POS	1
ECINSGB20	INSULATED GROUND BAR KIT-20 POS	1

Hubs

ECHS000	HS TYPE CLOSURE PLATE	1
ECHS075	HS TYPE HUB - 3/4"	1
ECHS100	HS TYPE HUB - 1"	1
ECHS125	HS TYPE HUB - 1 1/4"	1
ECHS150	HS TYPE HUB - 1 1/2"	1
ECHS200	HS TYPE HUB - 2"	1
ECHS250	HS TYPE HUB - 2 1/2"	1
ECHA000	HA TYPE CLOSURE PLATE	1
ECHA075	HA TYPE HUB - 3/4"	1
ECHA100	HA TYPE HUB - 1"	1
ECHA125	HA TYPE HUB - 1 1/4"	1
ECHA150	HA TYPE HUB - 1 1/2"	1
ECHV000	HV TYPE CLOSURE PLATE	1
ECHV200	HV TYPE HUB - 2"	1
ECHV250	HV TYPE HUB - 2.5"	1
ECHV300	HV TYPE HUB - 3"	1
ECHV350	HV TYPE HUB - 3.5"	1
ECHV400	HV TYPE HUB - 4"	1

Lock Kits

ECQFL2	FLUSH LOCK KIT FOR ULT., PL, ES, 3PH 100A-225A	1
ECQFL1	FLUSH LOCK KIT-REPLACEMENT FOR EQ LC	1
ECQFL3	ADD-A-LOCK (FLUSH LOCK) FOR 300-400A LC	1

Catalog Number	Description	Pack Qty
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Load Center Conversion Kits^{Ⓞ④}

MBK100A	MAIN BREAKER KIT 100A 1PH 22K	1
MBK125A	MAIN BREAKER KIT 125A 1PH 22K	1
MBK150A	MAIN BREAKER KIT 150A 1PH 22K	1
MBK200A	MAIN BREAKER KIT 200A 1PH 22K	1
MBK225A	MAIN BREAKER KIT 225A 1PH 22K	1
MBK3100	MAIN BREAKER KIT 100A 3PH QP 240V 10K	1
MBK3125R	MAIN BREAKER KIT 125A 3PH 240V 10K, QR	1
MBK3150R	MAIN BREAKER KIT 150A 3PH 240V 10K, QR	1
MBK3175R	MAIN BREAKER KIT 175A 3PH 240V 10K, QR	1
MBK3200R	MAIN BREAKER KIT 200A 3PH 240V 10K, QR	1
MBK3225R	MAIN BREAKER KIT 225A 3PH 240V 10K, QR	1
MBK3125HR	MAIN BREAKER KIT 125A 3PH 240V 22K, QR	1
MBK3150HR	MAIN BREAKER KIT 150A 3PH 240V 22K, QR	1
MBK3175HR	MAIN BREAKER KIT 175A 3PH 240V 22K, QR	1
MBK3200HR	MAIN BREAKER KIT 200A 3PH 240V 22K, QR	1
MBK3225HR	MAIN BREAKER KIT 225A 3PH 240V 22K, QR	1
MBK3125HHR	MAIN BREAKER KIT 125A 3PH 240V 65K, QR	1
MBK3150HHR	MAIN BREAKER KIT 150A 3PH 240V 65K, QR	1
MBK3175HHR	MAIN BREAKER KIT 175A 3PH 240V 65K, QR	1
MBK3200HHR	MAIN BREAKER KIT 200A 3PH 240V 65K, QR	1
MBK3225HHR	MAIN BREAKER KIT 225A 3PH 240V 65K, QR	1
HMBK3125HR	MAIN BREAKER KIT 125A 3PH 240V 100K, QR	1
HMBK3150HR	MAIN BREAKER KIT 150A 3PH 240V 100K, QR	1
HMBK3175HR	MAIN BREAKER KIT 175A 3PH 240V 100K, QR	1
HMBK3200HR	MAIN BREAKER KIT 200A 3PH 240V 100K, QR	1
HMBK3225HR	MAIN BREAKER KIT 225A 3PH 240V 100K, QR	1
ECMLK125	1 PH MAIN LUG CONVERSION KIT 100-125A	1
ECMLK225	1 PH MAIN LUG CONVERSION KIT 150-225A	1
ECMLK3125	3 PH MAIN LUG CONVERSION KIT 100-125A	1
ECMLK3225	3 PH MAIN LUG CONVERSION KIT 150-225A	1

Lug Kits

ECCS1	COLLAR STRAP FOR GRD BARS #14-1/0	1
ECCS2	COLLAR STRAP FOR GRD BARS #6-250	1
ECLKB1	NEUTRAL LUG KIT WITH BOND TAB	1
ECLK3	NEUTRAL LUG KIT #1-300 FOR EQIII LC	1
ECLK1-2	NEUTRAL LUG KIT #2 TO 1/0 FOR EQIII LC	1
ECLK2	NEUTRAL LUG KIT #4-2/0 FOR EQIII LC, PL, ES	1
ECLK25C	2/0 LUG FOR 125AMP NEUTRAL FEEDER	1
ECLK2125	125A SUB FEED LUGS-USES 2 SPACES	1
ECLK2225	150A-225A SUB FEED LUGS-USES 4 SPACES	1
ECLK3225	3P SUB FEED LUGS-USES 6 SPACES	1
ECRLK250	RISER LUG KIT 250 KCMIL	3

Miscellaneous Load Center Accessories

ECCP1	PKG OF 100 CIRCUIT DIRECTORY	100
ECQF3	QP/BQ/ED2 FILLER PLATE	5
ECMBF125	1 PH 100&125A MAIN BREAKER FILLER PLATE	1
EC3PMFP1	3 POLE MAIN FILLER PLATE, QJ	1
EC3PMFPR	3 POLE MAIN FILLER PLATE, QR	1
ECSMK1	SURFACE MOUNT 1/4" SPACE KIT FOR LC'S	4
ECTS2	LC TRIM SCREWS	6
ECTS2W	LC TRIM SCREWS WHITE	6
ECLCHINGE	GREY LC HINGES	100
ECADHLCDIRLBL	ADHESIVE LC DIRECTORY LABELS	100
ECSIELATCH	SIEMENS LC LATCHES	25
ECBONDSCRW	LC BOND SCREW	10
ECSN1	SCREWS & NUTS FOR HC HUB-BOTTOM USE	4
RAG24	RISER AUX GUTTER 24"	1
ECAFL	ARC FLASH LABEL	10

Neutral Bar Kits

ECLNB14	MLO NEUTRAL BAR KIT-14 POS	1
ECCNB16	CONVERTIBLE LC NEUTRAL BAR KIT-16 POS	1
ECMLK125	1 PH MAIN LUG CONVERSION KIT 100-125A	1

Ⓞ The pack quantity is the number that is sold in a pack. Items listed on this page must be ordered in multiples of pack quantities but items are priced per each. For example, ECRLK250 come 3 to a pack so must be ordered in multiples of 3 but pricing would be individual unit price times 3.

④ Bar has green-colored screws.
 Ⓞ QR Main Breaker Kits include a QR filler plate.
 Ⓞ Main Breaker Kits include line terminal barriers.

Load Centers

Load Center Accessories



Lug Kit, 3-Pole, Subfeed or Feed thru Applications
ECLK3225



2 PH Main Lug Conversion Kit
150A-225A
ECMLK225



Main Breaker Kit
200A - 225A, 1PH 22K
MBK200A



3-Pole Main Breaker Kit
MBK3200



Main Breaker Retainer Kit for EQ Load Centers
ECMBR1



Main Breaker Retainer kit for PL, ES, & Ultimate Load Centers
ECMBR2



Ground Bar Kit
20 POS. 2/0 Lug
ECGB202



Ground Bar Kit, **ECGB14**



Neutral Lug Kit, **ECLK1-2**
wire range — #2-1 AWG
Cu or Al



Neutral Lug Kit, **ECLK3**
wire range — #1-300 MCM
Neutral Lug Kit, **ECLK2**
wire range — #4-#2/0 AWG
Cu or Al



For use on Ground Bar only
Collar Strap, Wire Range;
ECCS1; ECCS2



Add-A-Lock
(Flush Lock) **ECQFL1**
For EQ load centers



Filler Plate, **ECQF3**



Add-A-Lock
(Flush Lock), **ECQFL2**
PL, ES, Ultimate Load Centers
and EQ III up to 225A



Add-A-Lock
(Flush Lock), **ECQFL3**
300-400A Load Centers

Load Centers

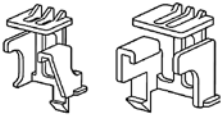
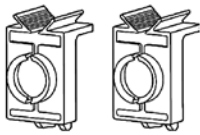

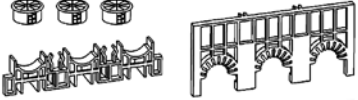
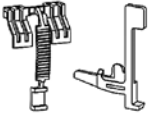
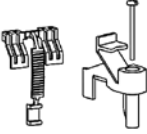
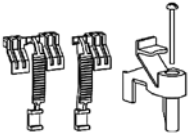
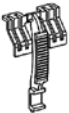
Load Center Accessories

Load centers and meter combos

Touchsafe barriers are required for any single main service entrance application for a panel covered under UL 67. Line Terminal Barriers will be included in Main Breaker Load Centers and Single Main Meter Combos manufactured after January 1, 2017.

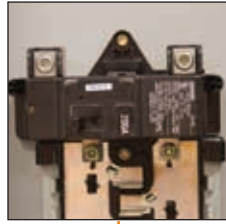
Single phase and 3-phase main breaker kits will include a barrier. Field installable kits are being created for replacements if needed and line terminal barriers are being added to hold down kits that can be used in back-fed applications. The barriers are designed to have minimal interference during load center installation, and can be removed and reattached as necessary.



	Catalog number	Description
	ECLTB1	For EQ Main Breakers/MBK kits 100A-125A
	ECLTB2	For EQ Main Breakers/MBK kits 150A-225A
	ECLTB3	For QN / QNR type breakers
	ECLTB4	For QR 3 phase breakers
	ECMBR1	For 2 Pole QP / MP-T type breakers for EQIII (extruded basepan) and Line 5 Load Centers
	ECMBR2	For 2 Pole QP / MP-T type breakers to be used with Ultimate LCs (now ES / PL), Murray or Rock Solid
	ECMBR3	For 3 Pole QP / MP-T type breakers to be used with PL, ES 3 phase load centers
	ECLX387HD	For 2 Pole MP-T type breakers in legacy Murray load centers

Murray Load Centers

Features



All main breakers are straight in wired- no backfeeding required.

Outboard neutral and groundbars allow for all neutral and ground connections to be located away from the breaker connections, making for a neat, clean installation

All devices are convertible from main lug to main breaker or vice versa with the addition of main breaker or main lug kits.

"Swiss Cheese" style neutral bars provide multiple 1/0 connection points.

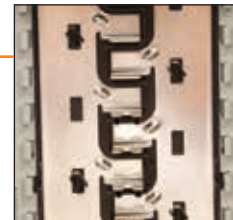


With the use of the included bonding strap, ground bars and neutral bars can be bonded for service entrance applications.

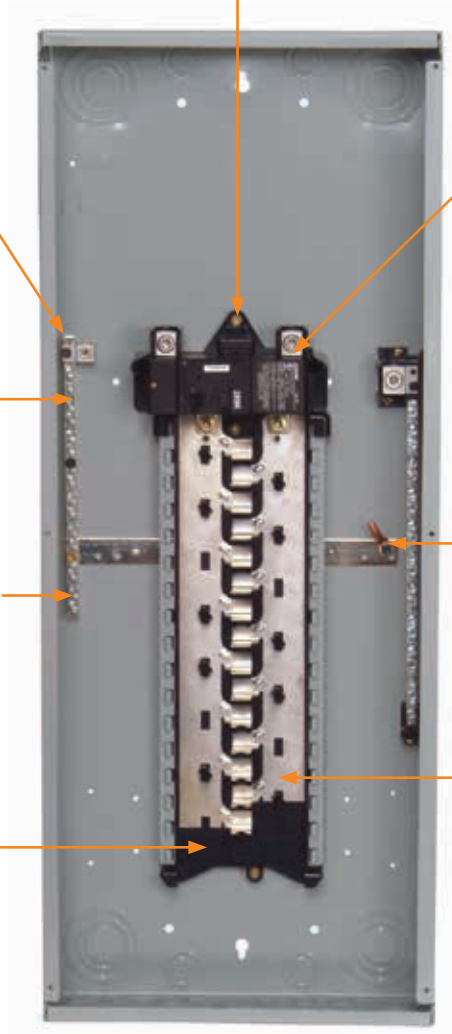


All units include factory installed ground bar and isolated neutral.

Copper Bus



A rigid, sturdy base pan with metal hook rails provides the most rugged breaker connection in the industry.



Invertible for bottom feed application

The outdoor enclosure has a slide hinge door for the easiest installation and can be removed by backing out only one screw.

Mounting tabs on the trim hold it in place on the load center, freeing up both hands to drive the trim screws.



Murray Load Centers^①

Main Lug & Main Breaker Load Centers 1-phase, 3-wire SN, 120/240V AC^②

Main Lugs with Aluminum Bus 12-60 Circuit, 125-225 Amperes

100,000A IR

Amps Max.	No. of Spaces	Max Circuit	Indoor Type 1 ^③	Dimensions ^④			Outdoor Type 3R ^{⑤⑥}	Dimensions ^④		
			Catalog Number	Height	Width	Depth	Catalog Number	Height	Width	Depth
125	12	24	LC1224L1125	21	14 ³ / ₈	4	LW1224L1125	20	14 ¹ / ₄	4 ¹ / ₂
125	16	32	LC1632L1125	21	14 ³ / ₈	4	LW1632L1125	29	14 ¹ / ₄	4 ¹ / ₂
125	20	40	LC2040L1125	24	14 ³ / ₈	4	LW2040L1125	29	14 ¹ / ₄	4 ¹ / ₂
125	30	40	LC3040L1125	30	14 ³ / ₈	4	—	—	—	—
150	16	32	LC1632L1150	24	14 ³ / ₈	4	—	—	—	—
150	24	40	LC2440L1150	30	14 ³ / ₈	4	—	—	—	—
200	12	24	—	—	—	—	LW1224L1200	29	14 ¹ / ₄	4 ¹ / ₂
200	20	40	LC2040L1200	30	14 ³ / ₈	4	LW2040L1200	29	14 ¹ / ₄	4 ¹ / ₂
200	24	40	LC2440L1200	30	14 ³ / ₈	4	—	—	—	—
200	30	40	LC3040L1200	36	14 ³ / ₈	4	LW3040L1200	38	14 ¹ / ₄	4 ¹ / ₂
200	40	40	LC4040L1200	39	14 ³ / ₈	4	—	—	—	—
225	40	60	LC4060L1225	39	14 ³ / ₈	4	—	—	—	—

Copper Bus^⑥

Amps Max.	No. of Spaces	Max Circuit	Indoor Type 1 ^③	Dimensions ^④			Outdoor Type 3R ^⑤	Dimensions ^④		
			Catalog Number	Height	Width	Depth	Catalog Number	Height	Width	Depth
125	20	40	LC2040L1125CU	24	14 ³ / ₈	4	—	—	—	—
200	20	40	LC2040L1200CU	30	14 ³ / ₈	4	—	—	—	—
200	30	40	LC3040L1200CU	36	14 ³ / ₈	4	—	—	—	—
200	40	40	LC4040L1200CU	39	14 ³ / ₈	4	—	—	—	—
225	12	24	—	—	—	—	LW1224L1225CU	29	14 ¹ / ₄	4 ¹ / ₂
225	42	42	LC4242L1225CU	42	14 ³ / ₈	4	LW4242L1225CU	42	14 ¹ / ₄	4 ¹ / ₂

Main Breaker with Aluminum Bus 12-60 Circuit, 100-200 Amperes

22,000A IR

Amps Max.	No. of Spaces	Max Circuit	Indoor Type 1 ^③	Dimensions ^④			Outdoor Type 3R ^{⑤⑥}	Dimensions ^④		
			Catalog Number	Height	Width	Depth	Catalog Number	Height	Width	Depth
100	12	24	LC1224B1100	18	14 ³ / ₈	4	LW1224B1100	23	14 ¹ / ₄	4 ¹ / ₂
100	16	32	—	—	—	—	LW1632B1100	23	14 ¹ / ₄	4 ¹ / ₂
100	20	40	LC2040B1100	24	14 ³ / ₈	4	—	—	—	—
100	24	40	LC2440B1100	24	14 ³ / ₈	4	—	—	—	—
100	30	40	LC3040B1100	30	14 ³ / ₈	4	—	—	—	—
150	16	32	LC1632B1150	24	14 ³ / ₈	4	—	—	—	—
150	20	40	LC2040B1150	30	14 ³ / ₈	4	LW2040B1150	29	14 ¹ / ₄	4 ¹ / ₂
150	24	40	LC2440B1150	30	14 ³ / ₈	4	—	—	—	—
150	30	40	LC3040B1150	36	14 ³ / ₈	4	—	—	—	—
200	12	24	—	—	—	—	LW1224B1200	29	14 ¹ / ₄	4 ¹ / ₂
200	16	32	LC1632B1200	30	14 ³ / ₈	4	—	—	—	—
200	20	40	LC2040B1200	30	14 ³ / ₈	4	LW2040B1200	29	14 ¹ / ₄	4 ¹ / ₂
200	24	40	LC2440B1200	30	14 ³ / ₈	4	—	—	—	—
200	30	40	LC3040B1200	36	14 ³ / ₈	4	LW3040B1200	38	14 ¹ / ₄	4 ¹ / ₂
200	40	40	LC4040B1200	39	14 ³ / ₈	4	LW4040B1200	38	14 ¹ / ₄	4 ¹ / ₂
200	30	54	LC3054B1200	36	14 ³ / ₈	4	—	—	—	—
200	42	60	LC4260B1200	39	14 ³ / ₈	4	—	—	—	—

Copper Bus^⑥

Amps Max.	No. of Spaces	Max Circuit	Indoor Type 1 ^③	Dimensions ^④		
			Catalog Number	Height	Width	Depth
100	20	40	LC2040B1100CU	24	14 ³ / ₈	4
200	20	40	LC2040B1200CU	30	14 ³ / ₈	4
200	30	40	LC3040B1200CU	36	14 ³ / ₈	4
200	40	40	LC4040B1200CU	39	14 ³ / ₈	4

① Convertible to main breaker by using the following main breaker kits:
 100A load centers: MBK100M only
 125A load centers: MBK100M and MBK125M only
 150A load centers: MBK150M only
 200A load centers: MBK150M and MBK200M only
 225A load centers: MBK150M, MBK200M, and MBK225M only

② 100-225A only

③ Standard package quantity equal to 1

④ Dimensions shown are representative of outside box length, width & depth (+ 1/8") and do not include allowance for mounting bumps, endwalls, hubs, or hardware protrusions. Allow approximately 1 1/4" additional in length and width dimensions for surface or combination overhang. Consult factory for specific details if required.

⑤ Hub provision only. closure plate included. Panels through 225A require HS type hub; panels over 225A require HV type hub. See accessories on page 21 for hub types.

⑥ Copper bus load centers are recommended for those applications where the environment may be severe (such as farm and coastal areas).

Murray Rock Solid Load Centers

Accessories

Hubs



ECHS125

Backfeed Main Breaker Hold Down Kits



ECMBR2



ECMBR1



ECLX386HD



ECLX387HD



ECLX388HD

Miscellaneous



ECQFL2



QF3/ECQF3

Main Breaker Kits



MBK100M



MBK200M

Lug Kits

Ground Bars and Insulated Neutral Kits



Insulated Neutral Kit

Catalog Number	Description	Pack Quantity
ECHS075	3/4" Hub	10
ECHS100	1" Hub	10
ECHS125	1 1/4" Hub	10
ECHS150	1 1/2" Hub	10
ECHS200	2" Hub	10
ECHS250	2 1/2" Hub	10

Catalog Number	Description	Pack Quantity
ECMBR2	For use on MP-T, MP-HT, & MP-MT breakers in Rock Solid Load Centers	25
ECMBR1	For use on MP-T, MP-HT, & MP-MT breakers in 2-8 circuit Load Centers	25
ECLX378M	For use on MD-T, MD-HT, & MD-MT breakers on old style (pre 2003) load centers (12-42 circuit)	25
ECLX386HD	For use on MP-T, MP-HT, & MP-MT breakers (15-60A) on old style (pre 2003) load centers (12-42 circuit)	25
ECLX387HD	For use on MP-T, MP-HT, & MP-MT breakers (70-125A) on old style (pre 2003) load centers (12-42 circuit)	25
ECLX388HD	For use on MP-T, MP-HT, & MP-MT breakers (100-125A) on old style (pre 2003) load centers (12-42 circuit)	25

Catalog Number	Description	Pack Quantity
ECQFL2	Door lock for Rock Solid Load Centers	10
ECQF3	Filler plate (1")	10
ECMBF125	Filler plate for main breaker opening on 100-125A Rock Solid Load Centers. Use two QF3 filler plates for 150-225A load centers	25
LX077SF	Flush installation cover for 400A panels	1
ECTS2	6 Cover screws, combination cover	50 Bags
ECSMK1	Surface mount spacer kit provides 1/4" space between load center and wall	25

Catalog Number	Description	Pack Quantity
MBK100M	100A—For use on 100 & 125A Rock Solid Load Centers only	1
MBK125M	125A—For use on 125A Rock Solid Load Centers only	1
MBK150M	150A—For use on 150, 200, & 225A Rock Solid Load Centers only	1
MBK200M	200A—For use on 200 & 225A Rock Solid Load Centers only	1
MBK225M	225A—For use on 225A Rock Solid Load Centers only	1
ECMLK125	1 PH Main Lug Conversion Kit 100-125A	1
ECMLK225	1 PH Main Lug Conversion Kit 150-225A	

Catalog Number	Description	Pack Quantity
ECLK25C	#2/0 max. lug for 125 amp neutral feeder for 12-42 circuit devices	50
ECLX384M	CB enclosure ground lug	20

Catalog Number	Description	Pack Quantity
ECLX068M	4 small terminals—15/8" long	10
ECLX069M	5 small and 2 large terminals—3" long	10
ECLX071M	8 small and 3 large terminals—3 1/2" long	10
ECLX072M	11 small and 4 large terminals—4 5/8" long	10
ECLX073M	14 small and 5 large terminals—5 3/4" long	10
ECLX074M	17 small and 6 large terminals—7" long	10
ECLX075M	21 small and 7 large terminals—8" long	10
ECINSNB27	Insulated neutral bar with 27 positions	10
ECINSNB32	Insulated neutral bar with 32 positions	10
ECINSNB33	Insulated neutral bar with 33 positions and a 300 MCM lug	10
ECINSNB41	Insulated neutral bar with 41 positions and a 300 MCM lug	10
ECINSNB43	Insulated neutral bar with 43 positions	10

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